



Dkt. 58044-A/JPW/AJM/AG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#17

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254 Examiner: K. A. Canella
Filed : November 28, 2000 Group Art Unit: 1642
For : ISOLATION OF FIVE NOVEL GENES CODING FOR NEW Fc
RECEPTORS-TYPE MELANOMA INVOLVED IN THE
PATHOGENESIS OF LYMPHOMA/MYELOMA

1185 Avenue of the Americas
New York, New York 10036
October 28, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

NOV 05 2002

Sir:

TECH CENTER 1600/2900

INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicant directs the Examiner's attention to the following disclosures, which are listed on Form PTO-1449 (Exhibit A). Copies of the disclosures listed below as items 1-78 are attached hereto as Exhibits 1-78, respectively:

1. Anand, R., Riley, J. H., Butler, R., Smith, J. C., and Markham, A. F., A 3.5 genome equivalent multi access YAC library: construction, characterization, screening and storage, *Nucleic Acids Res.*, (1990) 18, 1951-1956 (Exhibit 1);
2. Avet-Loiseau, H., Andree-Ashley, L. E., Moore, D., Mellerin, M. P., Feusner, J., Bataille, R., and Pallavicini, M. G., Molecular cytogenetic abnormalities in multiple myeloma and plasma cell leukemia measured using comparative genomic hybridization, *Genes Chromosomes Cancer*, (1997) 19, 124-133 (Exhibit 2);

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254
Filed : November 28, 2000
Page 2

3. Bakhshi, A., Jensen, J. P., Goldman, P., Wright, J. J., McBride, O. W., Epstein, A. L., and Korsmeyer, S. J., Cloning the chromosomal breakpoint of t(14;18) human lymphomas: clustering around JH on chromosome 14 and near a transcriptional unit on 18, *Cell*, (1985) 41, 899-906 (Exhibit 3);
4. Berger, R., Bernheim, A., Cytogenetics of Burkitt's lymphoma-leukaemia: a review, *IARC Sci. Publ.*, (1985) 60, 65-80 (Exhibit 4);
5. Bergsagel, P. L., Chesi, M., Nardini, E., Brents, L. A., Kirby, S. L., and Kuehl, W. M., Promiscuous translocations into immunoglobulin heavy chain switch regions in multiple myeloma, *Proc. Natl. Acad. Sci. U.S.A.*, (1996) 93, 13931-13936 (Exhibit 5);
6. Bosch, F., Jares, P., Campo, E., Lopez-Guillermo, A., Piris, M. A., Villamor, N., Tassies, D., Jaffe, E. S., Montserrat, E., Rozman, C. et al., PRAD-1/cyclin D1 gene overexpression in chronic lymphoproliferative disorders: a highly specific marker of mantle cell lymphoma, *Blood* (1994) 84, 2726-2732 (Exhibit 6);
7. Callanan, M. B., Le Baccon, P., Mossuz, P., Duley, S., Bastard, C., Hamoudi, R., Dyer, M. J., Klobeck, G., Rimokh, R., Sotto, J. J., and Leroux, D., The IgG Fc receptor, FcgammaRIIB, is a target for deregulation by chromosomal translocation in malignant lymphoma, *Proc. Natl. Acad. Sci. U.S.A.*, (2000) 97, 309-314 (Exhibit 7);

8. Cambier, J. C., Antigen and Fc receptor signaling: the awesome power of the immunoreceptor tyrosine-based activation motif (ITAM), *J. Immunol.*, (1995) 155, 3281-3285 (Exhibit 8);
9. Chesi, M., Bergsagel, P. L., Brents, L. A., Smith, C. M., Gerhard, D. S., and Kuehl, W. M., Dysregulation of cyclin D1 by translocation into an IgH gamma switch region in two multiple myeloma cell lines, *Blood*, (1996) 88, 674-681 (Exhibit 9);
10. Chesi, M., Bergsagel, P. L., Shonukan, O. O., Martelli, M. L., Brents, L. A., Chen, T., Schrock, E., Ried, T., and Kuehl, W. M., Frequent dysregulation of the c-maf proto-oncogene at 16q23 by translocation to an Ig locus in multiple myeloma, *Blood*, (1998) 91, 4457-4463 (Exhibit 10);
11. Chesi, M., Nardini, E., Brents, L. A., Schrock, E., Ried, T., Kuehl, W. M., and Bergsagel, P. L., Frequent translocation t(4;14)(p16.3;q32.3) in multiple myeloma is associated with increased expression and activating mutations of fibroblast growth factor receptor 3, *Nat. Genet.*, (1997) 16, 260-264 (Exhibit 11);
12. Church, D. M., Stotler, C. J., Rutter, J. L., Murrell, J. R., Trofatter, J. A., and Buckler, A. J., Isolation of genes from complex sources of mammalian genomic DNA using exon amplification, *Nat. Genet.*, (1994) 6, 98-105 (Exhibit 12);

13. Cigudosa, J. C., Parsa, N. Z., Louie, D. C., Filippa, D. A., Jhanwar, S. C., Johansson, B., Mitelman, F., and Chaganti, R. S., Cytogenetic analysis of 363 consecutively ascertained diffuse large B-cell lymphomas, *Genes Chromosomes Cancer* (1999) 25, 123-133 (Exhibit 13);
14. Daeron, M., Fc receptors, or the elective affinities of adhesion molecules, *Immunol. Lett.*, (1991) 27, 175-81 (Exhibit 14);
15. Dalla-Favera, R., Bregni, M., Erikson, J., Patterson, D., Gallo, R.C., and Croce, C.M., Human c-myc onc gene is located on the region of chromosome 8 which is translocated in Burkitt lymphoma cells, *Proc. Nat. Acad. Sci. U.S.A.*, (1982) 79, 7824-7827 (Exhibit 15);
16. Dalla-Favera, R., Martinotti, S., Gallo, R. C., Erikson, J., and Croce, C. M., Translocation and rearrangements of the c-myc oncogene locus in human undifferentiated B-cell lymphomas, *Science*, (1983) 219, 963-967 (Exhibit 16);
17. De Wolf-Peeters, C., Pittaluga, S., Dierlamm, J., Wlodarska, I., and Van Den Berghe, H., Marginal zone B-cell lymphomas including mucosa-associated lymphoid tissue type lymphoma (MALT), monocytoid B-cell lymphoma and splenic marginal zone cell lymphoma and their relation to the reactive marginal zone, *Leuk. Lymphoma*, (1997) 26, 467-478 (Exhibit 17);
18. DeLisser, H. M., Newman, P. J., and Albelda, S. M., Molecular and functional aspects of PECAM-1/CD31,

Immunol. Today, (1994) 15, 490-495 (Exhibit 18);

19. Dickson, G., Gower, H. J., Barton, C. H., Prentice, H. M., Elsom, V. L., Moore, S. E., Cox, R. D., Quinn, C., Putt, W., and Walsh, F. S., Human muscle neural cell adhesion molecule (N-CAM): identification of a muscle-specific sequence in the extracellular domain, *Cell*, (1987) 50, 1119-1130 (Exhibit 19);
20. Dierlamm, J., Pittaluga, S., Wlodarska, I., Stul, M., Thomas, J., Boogaerts, M., Michaux, L., Driessen, A., Mecucci, C., Cassiman, J. J., and et al., Marginal zone B-cell lymphomas of different sites share similar cytogenetic and morphologic features, *Blood*, (1996) 87, 299-307 (Exhibit 20);
21. Dubin, G., Socolof, E., Frank, I., Friedman, H. M., Herpes simplex virus type 1 Fc receptor protects infected cells from antibody-dependent cellular cytotoxicity, *Journal of Virology* (1991) 65, 7046-7050 (Exhibit 21);
22. Dyomin, V. G., Palanisamy, N., Lloyd, K. O., Dyomina, K., Jhanwar, S. C., Houldsworth, J., and Chaganti, R. S., MUC1 is activated in a B-cell lymphoma by the t(1;14)(q21;q32) translocation and is rearranged and amplified in B-cell lymphoma subsets, *Blood*, (2000) 95, 2666-2671 (Exhibit 22);
23. Dyomin, V. G., Rao, P. H., Dalla-Favera, R., Chaganti, R. S. K., BCL8, a novel gene involved in translocations affecting band 15q11-13 in diffuse large-cell lymphoma,

Proc. Natl. Acad. Sci. U.S.A., (1997) 94, 5728-5732
(Exhibit 23);

24. Eton, O., Scheinberg, D. A., and Houghton, A. N.,
Establishment and characterization of two human myeloma
cell lines secreting kappa light chains, *Leukemia*, (1989)
3, 729-735 (Exhibit 24);

25. Ferguson, M. A., and Williams, A. F., Cell-surface
anchoring of proteins via glycosyl-phosphatidylinositol
structures, *Annu. Rev. Biochem.*, (1988) 57, 285-320
(Exhibit 25);

26. Frank, D., Mendelsohn, C. L., Ciccone, E., Svensson, K.,
Ohlsson, R., and Tycko, B., A novel pleckstrin homology-
related gene family defined by *Ipl/Tssc3*, *TDAG51*, and
Tih1: tissue-specific expression, chromosomal location,
and parental imprinting, *Mamm. Genome* (1999) 10, 1150-
1159 (Exhibit 26);

27. Gaidano, G., and Dalla-Favera, R., Molecular Biology of
Lymphomas, *Principles and Practice of Oncology, Fifth
Ed.*, (1997) 2131-2145 (Exhibit 27);

28. Gilles, F., Goy, A., Remache, Y., Shue, P., and Zelenetz,
A. D., *MUC1* dysregulation as the consequence of a
tt(1;14)(q21;q32) translocation in an extranodal
lymphoma, *Blood*, (2000) 95, 2930-2936 (Exhibit 28);

29. Gower, H. J., Barton, C. H., Elsom, V. L., Thompson, J.,
Moore, S. E., Dickson, G., and Walsh, F. S., Alternative

splicing generates a secreted form of N-CAM in muscle and brain, *Cell*, (1988) 55, 955-964 (**Exhibit 29**);

30. Hamilton, M. S., Ball, J., Bromidge, E., Lowe, J., and Franklin, I. M., Characterization of new IgG lambda myeloma plasma cell line (EJM): a further tool in the investigation of the biology of multiple myeloma, *Br. J. Haematol.* (1990) 75, 378-384 (**Exhibit 30**);
31. Houldsworth, J., Mathew, S., Rao, P. H., Dyomina, K., Louie, D. C., Parsa, N., Offit, K., Chaganti, R. S., REL proto-oncogene is frequently amplified in extranodal diffuse large cell lymphoma, *Blood*, (1996) 87, 25-29 (**Exhibit 31**);
32. Iida, S., Rao, P. H., Butler, M., Corradini, P., Boccadoro, M., Klein, B., Chaganti, R. S., and Dalla-Favera, R., Dereglulation of MUM1/IRF4 by chromosomal translocation in multiple myeloma, *Nat. Genet.*, (1997) 17, 226-230 (**Exhibit 32**);
33. Jackson, N., Lowe, J., Ball, J., Bromidge, E., Ling, N. R., Larkins, S., Griffith, M. J., and Franklin, I. M., Two new IgA1-kappa plasma cell leukaemia cell lines (JJN-1 & JJN-2) which proliferate in response to B cell stimulatory factor 2, *Clin. Exp. Immunol.*, (1989) 75, 93-99 (**Exhibit 33**);
34. Jernberg, H., Zech, L., and Nilsson, K., Cytogenetic studies on human myeloma cell lines, *Int. J. Cancer*, (1987) 40, 811-817 (**Exhibit 34**);

35. Juliusson, G., Oscier, D. G., Fitchett, M., Ross, F. M., Stockdill, G., Mackie, M. J., Parker, A. C., Castoldi, G. L., Guneo, A., Knuutila, S., et al., Prognostic subgroups in B-cell chronic lymphocytic leukemia defined by specific chromosomal abnormalities, *N. Engl. J. Med.*, (1990) 323, 720-724 (Exhibit 35);
36. Kaisho, T., Schwenk, F., and Rajewsky, K., The roles of gamma 1 heavy chain membrane expression and cytoplasmic tail in IgG1 responses, *Science*, (1997) 276, 412-415 (Exhibit 36);
37. Kempkes, B., Spitkovsky, D., Jansen-Durr, P., Ellwart, J. W., Kremmer, E., Delecluse, H. J., Rottenberger, C., Bornkamm, G. W., and Hammerschmidt, W., B-cell proliferation and induction of early G1-regulating proteins by Epstein-Barr virus mutants conditional for EBNA2, *Embo J.*, (1995) 14, 88-96 (Exhibit 37);
38. Kornblau, S. M., Goodacre, A., Cabanillas, F., Chromosomal abnormalities in adult non-endemic Burkitt's lymphoma and leukemia: 22 new reports and a review of 148 cases from the literature, *Hematol. Oncol.*, (1991) 9, 63-78 (Exhibit 38);
39. Kubagawa, H., Burrows, P. D., and Cooper, M. D., A novel pair of immunoglobulin-like receptors expressed by B cells and myeloid cells, *Proc. Natl. Acad. Sci. U.S.A.*, (1997) 94, 5261-5266 (Exhibit 39);
40. Kuppers, R., Klein, U., Hansmann, M. L., and Rajewsky,

K., Cellular origin of human B-cell lymphomas, *N. Engl. J. Med.*, (1999) 341, 1520-9 (Exhibit 40);

41. Lanier, L. L., NK cell receptors, *Annu. Rev. Immunol.*, (1998) 16, 359-93 (Exhibit 41);
42. Leduc, I., Drouet, M., Bodinier, M. C., Helal, A., and Cogne, M., Membrane isoforms of human immunoglobulins of the A1 and A2 isotypes: Structural and functional study, *Immunology* (1997) 90, 330-336 (Exhibit 42);
43. MacLennan, I. C., Germinal Centers, *Annu. Rev. Immunol.*, (1994) 12, 117-139 (Exhibit 43);
44. Magrath, I. T., Pizzo, P. A., Whang-Peng, J., Douglass, E. C., Alabaster, O., Gerber, P., Freeman, C. B., and Novikovs, L., Characterization of lymphoma-derived cell lines: comparison of cell lines positive and negative for Epstein-Barr virus nuclear antigen. I. physical, cytogenetic, and growth characteristics, *J. Natl. Cancer Inst.* (1980), 64, 465-476 (Exhibit 44);
45. Monni, O., Joensuu, H., Franssila, K., Klefstrom, J., Alitalo, K., and Knuutila, S., BCL2 overexpression associated with chromosomal amplification in diffuse large B-cell lymphoma, *Blood* (1997) 90, 1168-1174 (Exhibit 45);
46. Neri, A., Barriga, F., Knowles, D. M., Magrath, I. T., and Dalla-Favera, R., Different regions of the immunoglobulin heavy-chain locus are involved in

chromosomal translocations in distinct pathogenetic forms of Burkitt lymphoma, *Proc. Natl. Acad. Sci. U.S.A.*, (1988) 85, 2748-2752 (Exhibit 46);

47. Neri, A., Chang, C. C., Lombardi, L., Salina, M., Corradini, P., Maiolo, A. T., Chaganti, R. S., and Dalla-Favera, R., B-cell lymphoma-associated chromosomal translocation involves candidate oncogene *lyt-10*, homologous to NF-kappa B p50, *Cell*, (1991) 67, 1075-1087 (Exhibit 47);
48. Newman, P. J., Berndt, M. C., Gorski, J., White, G. C. D., Lyman, S., Paddock, C., and Muller, W. A., PECAM-1 (CD31) cloning and relation to adhesion molecules of the immunoglobulin gene superfamily, *Science*, (1990) 247, 1219-1222 (Exhibit 48);
49. Offit, K., Louie, D. C., Parsa, N. Z., Roy, P., Leung, D., Lo Coco, F., Zelenetz, A., Dalla-Favera, R., Chaganti, R. S., BCL6 gene rearrangement and other cytogenetic abnormalities in diffuse large cell lymphoma, *Leuk. Lymphoma*, (1995) 20, 85-89 (Exhibit 49);
50. Pelicci, P. G., Knowles, D. M. D., Magrath, I., and Dalla-Favera, R., Chromosomal breakpoints and structural alterations of the *c-myc* locus differ in endemic and sporadic forms of Burkitt's lymphoma, *Proc. Natl. Acad. Sci. U.S.A.*, (1986) 83, 2984-2988 (Exhibit 50);
51. Polito, P., Cilia, A. M., Gloghini, A., Cozzi, M., Perin, T., De Paoli, P., Gaidano, G., and Carbone, A., High

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254
Filed : November 28, 2000
Page 11

frequency of EBV association with non-random abnormalities of the chromosome region 1q21-25 in AIDS-related Burkitt's lymphoma-derived cell lines, *Int. J. Cancer*, (1995) 61, 370-374 (**Exhibit 51**);

52. Prunerì, G., Fabris, S., Baldini, L., Carboni, N., Zagano, S., Colombi, M. A., Ciceri, G., Lombardi, L., Rocchi, M., Buffa, R., Maiolo, A. T., Neri, A., Immunohistochemical analysis of cyclin D1 shows deregulated expression in multiple myeloma with the t(11;14), *Am. J. Pathol.*, (2000) 156, 1505-1513 (**Exhibit 52**);
53. Qiu, W. Q., De Bruin, D., Brownstein, B. H., Pearse, R., Ravetch, J. V., Organization of the human and mouse low-affinity Fc gamma R genes: duplication and recombination, *Science*, (1990) 248, 732-735 (**Exhibit 53**);
54. Rao, P. H., Houldsworth, J., Dyomina, K., Parsa, N. Z., Cigudosa, J. C., Louie, D. C., Popplewell, L., Offit, K., Jhanwar, S. C., and Chaganti, R. S., Chromosomal and gene amplification in diffuse large B-cell lymphoma, *Blood* (1998) 92, 234-240 (**Exhibit 54**);
55. Rao, P. H., Murty, V. V., Gaidano, G., Hauptschein, R., Dalla-Favera, R., and Chaganti, R. S., Subregional localization of 20 single-copy loci to chromosome 6 by fluorescence in situ hybridization, *Genomics*, (1993) 16, 426-430 (**Exhibit 55**);
56. Ravetch, J. V., and Lanier, L. L., Immune inhibitory

- receptors, *Science*, (2000) 290, 84-89 (**Exhibit 56**);
57. Reth, M., Antigen receptor tail clue, *Nature*, (1989) 338, 383-384 (**Exhibit 57**);
58. Reth, M., Antigen receptors on B lymphocytes, *Annu. Rev. Immunol.*, (1992) 10, 97-121 (**Exhibit 58**);
59. Richelda, R., Ronchetti, D., Baldini, L., Cro, L., Viggiano, L., Marzella, R., Rocchi, M., Otsuki, T., Lombardi, L., Maiolo, A. T., Neri, A., A novel chromosomal translocation t(4;14)(p16.3;q32) in multiple myeloma involves the fibroblast growth-factor receptor 3 gene, *Blood*, (1997) 90, 4062-4070 (**Exhibit 59**);
60. Riley, J., Butler, R., Ogilvie, D., Finniear, R., Jenner, D., Powell, S., Anand, R., Smith, J. C., and Markham, A. F., A novel, rapid method for the isolation of terminal sequences from yeast artificial chromosome (YAC) clones, *Nucleic Acids Res.*, (1990) 18, 2887-2890 (**Exhibit 60**);
61. Ronchetti, D., Finelli, P., Richelda, R., Baldini, L., Rocchi, M., Viggiano, L., Cuneo, A., Bogni, S., Fabris, S., Lombardi, L., Maiolo, A. T., and Neri, A., Molecular analysis of 11q13 breakpoints in multiple myeloma, *Blood*, (1999) 93, 1330-1337 (**Exhibit 61**);
62. Rosenberg, C. L., Wong, E., Petty, E. M., Bale, A. E., Tsujimoto, Y., Harris, N. L., and Arnold, A., PRAD1, a candidate BCL1 oncogene: mapping and expression in centrocytic lymphoma, *Proc. Natl. Acad. Sci. U.S.A.*,

(1991) 88, 9638-9642 (Exhibit 62);

63. Sawyer, J. R., Tricot, G., Mattox, S., Jagannath, S., and Barlogie, B., Jumping translocations of chromosome 1q in multiple myeloma: evidence for a mechanism involving decondensation of pericentromeric heterochromatin, *Blood*, (1998) 91, 1732-1741 (Exhibit 63);
64. Sawyer, J. R., Waldron, J. A., Jagannath, S., Barlogie, B., Cytogenetic findings in 200 patients with multiple myeloma, *Cancer Genet. Cytogenet.*, (1995) 82, 41-49 (Exhibit 64);
65. Shou, Y., Martelli, M. L., Gabrea, A., Qi, Y., Brents, L. A., Roschke, A., Dewald, G., Kirsch, I. R., Bergsagel, P. L., and Kuehl, W. M., Diverse karyotypic abnormalities of the c-myc locus associated with c-myc dysregulation and tumor progression in multiple myeloma, *Proc. Natl. Acad. Sci. U.S.A.*, (2000) 97, 228-233 (Exhibit 65);
66. Stockinger, H., Gadd, S. J., Eher, R., Majdic, O., Schreiber, W., Kasinrerk, W., Strass, B., Schnabl, E., and Knapp, W., Molecular characterization and functional analysis of the leukocyte surface protein CD31, *J. Immunol.*, (1990) 145, 3889-3897 (Exhibit 66);
67. Swerdlow, S. H., Yang, W. I., Zukerberg, L. R., Harris, N. L., Arnold, A., Williams, M. E., Expression of cyclin D1 protein in centrocytic/mantle cell lymphomas with and without rearrangement of the BCL1/cyclin D1 gene, *Hum. Pathol.*, (1995) 26, 999-1004 (Exhibit 67);

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254
Filed : November 28, 2000
Page 14

68. Tagawa, S., Doi, S., Taniwaki, M., Abe, T., Kanayama, Y., Nojima, J., Matsubara, K., and Kitani, T., Amylase-producing plasmacytoma cell lines, AD3 and FR4, with der(14)t(8;14) and dic(8)t(1;8) established from ascites, *Leukemia*, (1990) 4, 600-605 (**Exhibit 68**);
69. Taub, R., Kirsch, I., Morton, C., Lenoir, G., Swan, D., Tronick, S., Aaronson, S., Leder, P., Translocation of the c-myc gene into the immunoglobulin heavy chain locus in human Burkitt's lymphoma and murine plasmacytoma cells, *Proc. Natl. Acad. Sci. U.S.A.*, (1982) 79, 7837-7841 (**Exhibit 69**);
70. Thompson, J. D., Higgins, D. G., Gibson, T. J., CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice, *Nucleic Acids Res.*, (1994) 22, 4673-4680 (**Exhibit 70**);
71. Tusnady, G. E., Simon, I., Principles governing amino acid composition of integral membrane proteins: application to topology prediction, *J. Mol. Bio.*, (1998) 283, 489-506 (**Exhibit 71**);
72. Unkeless, J. C., and Jin, J., Inhibitory receptors, ITIM sequences and phosphatases, *Curr. Opin. Immunol.*, (1997) 9, 338-343 (**Exhibit 72**);
73. Von Heijne, G., A new method for predicting signal sequence cleavage sites, *Nucleic Acids Res.*, (1986) 14, 4683-4690 (**Exhibit 73**);

74. Whang-Peng, J., Knutsen, T., Jaffe, E. S., Steinberg, S. M., Raffeld, M., Zhao, W. P., Duffey, P., Condron, K., Yano, T., Longo, D. L., Sequential analysis of 43 patients with non-Hodgkin's lymphoma: clinical correlations with cytogenetic, histologic, immunophenotyping and molecular studies, *Blood*, (1995) 85, 203-216 (**Exhibit 74**);
75. Willis, T. G., Zalcberg, I. R., Coignet, L. J., Wlodarska, I., Stul, M., Jadayel, D. M., Bastard, C., Treleaven, J. G., Catovsky, D., Silva, M. L., and Dyer, M. J., Molecular cloning of translocation *tt(1;14)(q21;q32)* defines a novel gene (BCL9) at chromosome 1q21, *Blood*, (1998) 91, 1873-1881 (**Exhibit 75**);
76. Ye, B. H., Lista, F., Lo Coco, F., Knowles, D. M., Offit, K., Chaganti, R. S., and Dalla-Favera, R., Alterations of a zinc finger-encoding gene, BCL-6, in diffuse large-cell lymphoma, *Science*, (1993) 262, 747-75 (**Exhibit 76**);
77. Yu, L. M., Peng, C., Starnes, S. M., Liou, R. S., and Chang, T. W., Two isoforms of human membrane-bound alpha Ig resulting from alternative mRNA splicing in the membrane segment, *J. Immunol.*, (1990) 145, 3932-3936 (**Exhibit 77**); and
78. Zhang, X. G., Gaillard, J. P., Robillard, N., Lu, Z. Y., Gu, Z. J., Jourdan, M., Boiron, J. M., Bataille, R., and Klein, B., Reproducible obtaining of human myeloma cell lines as a model for tumor stem cell study in human

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254
Filed : November 28, 2000
Page 16

multiple myeloma, *Blood*, (1994) 83, 3654-3663 (**Exhibit 78**).

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicant's undersigned attorneys invite the Examiner to telephone them at the number provided below.

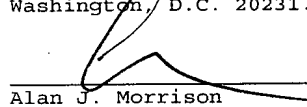
Pursuant to 37 C.F.R. §1.97(b), no fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,

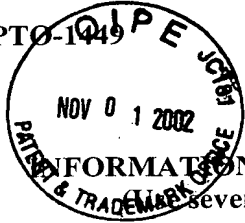


John P. White
Registration No. 28,678
Alan J. Morrison
Registration No. 37,399
Attorneys for Applicant
Cooper & Dunham LLP
1185 Avenue of the Americas
New York, NY 10036
(212) 278-0400

I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
Assistant Commissioner for Patents,
Washington, D.C. 20231.


Alan J. Morrison
Reg. No. 37,399

10/28/02
Date

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office  INFORMATION DISCLOSURE CITATION (Attach several sheets if necessary)					Atty. Docket No. 58044-A/ JPW/AJM/AG		Serial No. 09/724,254	
					Applicant(s) Riccardo Dalla-Favera			
					Filing Date November 28, 2000		Group Art Unit 1642	
U.S. PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
							RECEIVED NOV 05 2002 TECH CENTER 1600/2900	
FOREIGN PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
		Anand, R., Riley, J. H., Butler, R., Smith, J. C., and Markham, A. F., A 3.5 genome equivalent multi access YAC library: construction, characterization, screening and storage, <i>Nucleic Acids Res.</i> , (1990) 18, 1951-1956;						
		Avet-Loiseau, H., Andree-Ashley, L. E., Moore, D., Mellerin, M. P., Feusner, J., Bataille, R., and Pallavicini, M. G., Molecular cytogenetic abnormalities in multiple myeloma and plasma cell leukemia measured using comparative genomic hybridization, <i>Genes Chromosomes Cancer</i> , (1997) 19, 124-133;						
		Bakhshi, A., Jensen, J. P., Goldman, P., Wright, J. J., McBride, O. W., Epstein, A. L., and Korsmeyer, S. J., Cloning the chromosomal breakpoint of t(14;18) human lymphomas: clustering around JH on chromosome 14 and near a transcriptional unit on 18, <i>Cell</i> , (1985) 41, 899-906;						
		Berger, R., Bernheim, A., Cytogenetics of Burkitt's lymphoma-leukaemia: a review, <i>IARC Sci. Publ.</i> , (1985) 60, 65-80;						
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

**U.S. Department of Commerce
Patent and Trademark Office**

Group Art Unit
1642

[illegible][illegible]

	Bergsagel, P. L., Chesi, M., Nardini, E., Brents, L. A., Kirby, S. L., and Kuehl, W. M., Promiscuous translocations into immunoglobulin heavy chain switch regions in multiple myeloma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1996) 93, 13931-13936;
	Bosch, F., Jares, P., Campo, E., Lopez-Guillermo, A., Piris, M. A., Villamor, N., Tassies, D., Jaffe, E. S., Montserrat, E., Rozman, C. et al., PRAD-1/cyclin D1 gene overexpression in chronic lymphoproliferative disorders: a highly specific marker of mantle cell lymphoma, <i>Blood</i> (1994) 84, 2726-2732;
	Callanan, M. B., Le Baccon, P., Mossuz, P., Duley, S., Bastard, C., Hamoudi, R., Dyer, M. J., Klobeck, G., Rimokh, R., Sotto, J. J., and Leroux, D., The IgG Fc receptor, FcγRIIB, is a target for deregulation by chromosomal translocation in malignant lymphoma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (2000) 97, 309-314;

DATE CONSIDERED

***EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

Form PTO-14

U.S. Department of Commerce
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**
(Use several sheets if necessary)Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
						RECEIVED
						NOV 05 2002
						TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Cambier, J. C., Antigen and Fc receptor signaling: the awesome power of the immunoreceptor tyrosine-based activation motif (ITAM), <i>J. Immunol.</i> , (1995) 155, 3281-3285;
	Chesi, M., Bergsagel, P. L., Brents, L. A., Smith, C. M., Gerhard, D. S., and Kuehl, W. M., Dysregulation of cyclin D1 by translocation into an IgH gamma switch region in two multiple myeloma cell lines, <i>Blood</i> , (1996) 88, 674-681;
	Chesi, M., Bergsagel, P. L., Shonukan, O. O., Martelli, M. L., Brents, L. A., Chen, T., Schrock, E., Ried, T., and Kuehl, W. M., Frequent dysregulation of the c-maf proto-oncogene at 16q23 by translocation to an Ig locus in multiple myeloma, <i>Blood</i> , (1998) 91, 4457-4463;
	Chesi, M., Nardini, E., Brents, L. A., Schrock, E., Ried, T., Kuehl, W. M., and Bergsagel, P. L., Frequent translocation t(4;14)(p16.3;q32.3) in multiple myeloma is associated with increased expression and activating mutations of fibroblast growth factor receptor 3, <i>Nat. Genet.</i> , (1997) 16, 260-264;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1420 U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.
58044-A/
JPW/AJM/AG

Serial No.
09/724,254

Applicant(s)
Riccardo Dalla-Favera

Filing Date
November 28,
2000

Group Art Unit
1642

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
						RECEIVED
						NOV 05 2002
						TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Church, D. M., Stotler, C. J., Rutter, J. L., Murrell, J. R., Trofatter, J. A., and Buckler, A. J., Isolation of genes from complex sources of mammalian genomic DNA using exon amplification, <i>Nat. Genet.</i> , (1994) 6, 98-105;
	Cigudosa, J. C., Parsa, N. Z., Louie, D. C., Filippa, D. A., Jhanwar, S. C., Johansson, B., Mitelman, F., and Changati, R. S., Cytogenetic analysis of 363 consecutively ascertained diffuse large B-cell lymphomas, <i>Genes Chromosomes Cancer</i> , (1999) 25, 123-133;
	Daeron, M., Fc receptors, or the elective affinities of adhesion molecules, <i>Immunol. Lett.</i> , (1991) 27, 175-81;
	Dalla-Favera, R., Bregni, M., Erikson, J., Patterson, D., Gallo, R.C., and Croce, C.M., Human c-myc onc gene is located on the region of chromosome 8 which is translocated in Burkitt lymphoma cells, <i>Proc. Nat. Acad. Sci. U.S.A.</i> , (1982) 79, 7824-7827;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

NOV 01 2002

Page 5 of 21

Form PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.
58044-A/
JPW/AJM/AG

Serial No.
09/724,254

Applicant(s)
Riccardo Dalla-Favera

Filing Date
November 28,
2000

Group Art Unit
1642

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
						RECEIVED
						NOV 05 2002
						TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

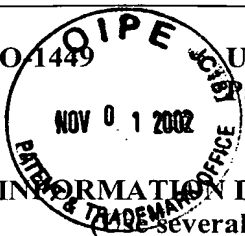
	Dalla-Favera, R., Martinotti, S., Gallo, R. C., Erikson, J., and Croce, C. M., Translocation and rearrangements of the c-myc oncogene locus in human undifferentiated B-cell lymphomas, <i>Science</i> , (1983) 219, 963-967;
	De Wolf-Peeters, C., Pittaluga, S., Dierlamm, J., Wlodarska, I., and Van Den Berghe, H., Marginal zone B-cell lymphomas including mucosa-associated lymphoid tissue type lymphoma (MALT), monocytoid B-cell lymphoma and splenic marginal zone cell lymphoma and their relation to the reactive marginal zone, <i>Leuk. Lymphoma</i> , (1997) 26, 467-478;
	DeLisser, H. M., Newman, P. J., and Albelda, S. M., Molecular and functional aspects of PECAM-1/CD31, <i>Immunol. Today</i> , (1994) 15, 490-495;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Atty. Docket No.

58044-A/
JPW/AJM/AG

Serial No.

09/724,254

Applicant(s)

Riccardo Dalla-Favera

Filing Date

November 28,
2000

Group Art Unit

1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
						RECEIVED
						NOV 05 2002
						TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

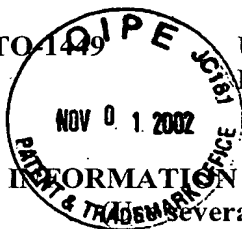
	Dickson, G., Gower, H. J., Barton, C. H., Prentice, H. M., Elsom, V. L., Moore, S. E., Cox, R. D., Quinn, C., Putt, W., and Walsh, F. S., Human muscle neural cell adhesion molecule (N-CAM): identification of a muscle-specific sequence in the extracellular domain, <i>Cell</i> , (1987) 50, 1119-1130;
	Dierlamm, J., Pittaluga, S., Wlodarska, I., Stul, M., Thomas, J., Boogaerts, M., Michaux, L., Driessen, A., Mecucci, C., Cassiman, J. J., et al., Marginal zone B-cell lymphomas of different sites share similar cytogenetic and morphologic features, <i>Blood</i> , (1996) 87, 299-307;
	Dubin, G., Socolof, E., Frank, I., Friedman, H. M., Herpes simplex virus type 1 Fc receptor protects infected cells from antibody-dependent cellular cytotoxicity, <i>Journal of Virology</i> (1991) 65, 7046-7050;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

(Attach several sheets if necessary)

Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Dyomin, V. G., Palanisamy, N., Lloyd, K. O., Dyomina, K., Jhanwar, S. C., Houldsworth, J., and Chaganti, R. S., MUC1 is activated in a B-cell lymphoma by the t(1;14)(q21;q32) translocation and is rearranged and amplified in B-cell lymphoma subsets, <i>Blood</i> , (2000) 95, 2666-2671;
	Dyomin, V. G., Rao, P. H., Dalla-Favera, R., Chaganti, R. S. K., BCL8, a novel gene involved in translocations affecting band 15q11-13 in diffuse large-cell lymphoma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1997) 94, 5728-5732;
	Eton, O., Scheinberg, D. A., and Houghton, A. N., Establishment and characterization of two human myeloma cell lines secreting kappa light chains, <i>Leukemia</i> , (1989) 3, 729-735;
	Ferguson, M. A., and Williams, A. F., Cell-surface anchoring of proteins via glycosyl-phosphatidylinositol structures, <i>Annu. Rev. Biochem.</i> , (1988) 57, 285-320;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

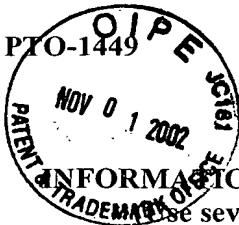
[illegible][illegible]

	Frank, D., Mendelsohn, C. L., Ciccone, E., Svensson, K., Ohlsson, R., and Tycko, B., A novel pleckstrin homology-related gene family defined by Ipl/Tssc3, TDAG51, and Tih1: tissue-specific expression, chromosomal location, and parental imprinting, <i>Mamm. Genome</i> (1999) 10, 1150-1159;
	Gaidano, G., and Dalla-Favera, R., Molecular Biology of Lymphomas, <i>Principles and Practice of Oncology, Fifth Ed.</i> , (1997) 2131-2145;
	Gilles, F., Goy, A., Remache, Y., Shue, P., and Zelenetz, A. D., MUC1 dysregulation as the consequence of a tt(1;14)(q21;q32) translocation in an extranodal lymphoma, <i>Blood</i> , (2000) 95, 2930-2936;
	Gower, H. J., Barton, C. H., Elsom, V. L., Thompson, J., Moore, S. E., Dickson, G., and Walsh, F. S., Alternative splicing generates a secreted form of N-CAM in muscle and brain, <i>Cell</i> , (1988) 55, 955-964;

DATE CONSIDERED

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Atty. Docket No.

58044-A/
JPW/AJM/AG

Serial No.

09/724,254

Applicant(s)

Riccardo Dalla-Favera

Filing Date

November 28,
2000

Group Art Unit

1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Hamilton, M. S., Ball, J., Bromidge, E., Lowe, J., and Franklin, I. M., Characterization of new IgG lambda myeloma plasma cell line (EJM): a further tool in the investigation of the biology of multiple myeloma, <i>Br. J. Haematol.</i> (1990) 75, 378-384;
	Houldsworth, J., Mathew, S., Rao, P. H., Dyomina, K., Louie, D. C., Parsa, N., Offit, K., Chaganti, R. S., REL proto-oncogene is frequently amplified in extranodal diffuse large cell lymphoma, <i>Blood</i> , (1996) 87, 25-29;
	Iida, S., Rao, P. H., Butler, M., Corradini, P., Boccadoro, M., Klein, B., Chaganti, R. S., and Dalla-Favera, R., Deregulation of MUM1/IRF4 by chromosomal translocation in multiple myeloma, <i>Nat. Genet.</i> , (1997) 17, 226-230;
	Jackson, N., Lowe, J., Ball, J., Bromidge, E., Ling, N. R., Larkins, S., Griffith, M. J., and Franklin, I. M., Two new IgA1-kappa plasma cell leukaemia cell lines (JJN-1 & JJN-2) which proliferate in response to B cell stimulatory factor 2, <i>Clin. Exp. Immunol.</i> , (1989) 75, 93-99;

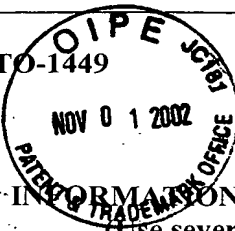
EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED
NOV 05 2002
TECH CENTER 1600/2900

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Jernberg, H., Zech, L., and Nilsson, K., Cytogenetic studies on human myeloma cell lines, <i>Int. J. Cancer</i> , (1987) 40, 811-817;
	Juliusson, G., Oscier, D. G., Fitchett, M., Ross, F. M., Stockdill, G., Mackie, M. J., Parker, A. C., Castoldi, G. L., Guneo, A., Knuutila, S., and et al., Prognostic subgroups in B-cell chronic lymphocytic leukemia defined by specific chromosomal abnormalities, <i>N. Engl. J. Med.</i> , (1990) 323, 720-724;
	Kaisho, T., Schwenk, F., and Rajewsky, K., The roles of gamma 1 heavy chain membrane expression and cytoplasmic tail in IgG1 responses, <i>Science</i> , (1997) 276, 412-415;
	Kempkes, B., Spitkovsky, D., Jansen-Durr, P., Ellwart, J. W., Kremmer, E., Delecluse, H. J., Rottenberger, C., Bornkamm, G. W., and Hammerschmidt, W., B-cell proliferation and induction of early G1-regulating proteins by Epstein-Barr virus mutants conditional for EBNA2, <i>Embo J.</i> , (1995) 14, 88-96;

EXAMINER

DATE CONSIDERED

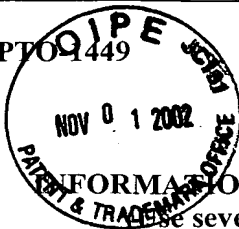
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Kornblau, S. M., Goodacre, A., Cabanillas, F., Chromosomal abnormalities in adult non-endemic Burkitt's lymphoma and leukemia: 22 new reports and a review of 148 cases from the literature, <i>Hematol. Oncol.</i> , (1991) 9, 63-78;
	Kubagawa, H., Burrows, P. D., and Cooper, M. D., A novel pair of immunoglobulin-like receptors expressed by B cells and myeloid cells, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1997) 94, 5261-5266;
	Kuppers, R., Klein, U., Hansmann, M. L., and Rajewsky, K., Cellular origin of human B-cell lymphomas, <i>N. Engl. J. Med.</i> , (1999) 341, 1520-9;
	Lanier, L. L., NK cell receptors, <i>Annu. Rev. Immunol.</i> , (1998) 16, 359-93;

EXAMINER

DATE CONSIDERED

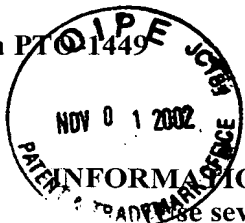
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PT-1449



U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Atty. Docket No.

58044-A/
JPW/AJM/AG

Serial No.

09/724,254

Applicant(s)

Riccardo Dalla-Favera

Filing Date

November 28,
2000

Group Art Unit

1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Leduc, I., Drouet, M., Bodinier, M. C., Helal, A., and Cogne, M., Membrane isoforms of human immunoglobulins of the A1 and A2 isotypes: Structural and functional study, <i>Immunology</i> (1997) 90, 330-336;
	MacLennan, I. C., Germinal Centers, <i>Annu. Rev. Immunol.</i> , (1994) 12, 117-139;
	Magrath, I. T., Pizzo, P. A., Whang-Peng, J., Douglass, E. C., Alabaster, O., Gerber, P., Freeman, C. B., and Novikovs, L., Characterization of lymphoma-derived cell lines: comparison of cell lines positive and negative for Epstein-Barr virus nuclear antigen. I. physical, cytogenetic, and growth characteristics, <i>J. Natl. Cancer Inst.</i> (1980), 64, 465-476;
	Monni, O., Joensuu, H., Franssila, K., Klefstrom, J., Alitalo, K., and Knuutila, S., BCL2 overexpression associated with chromosomal amplification in diffuse large B-cell lymphoma, <i>Blood</i> (1997) 90, 1168-1174;

EXAMINER

DATE CONSIDERED

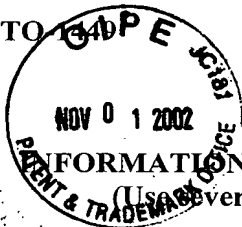
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO-1349

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Neri, A., Barriga, F., Knowles, D. M., Magrath, I. T., and Dalla-Favera, R., Different regions of the immunoglobulin heavy-chain locus are involved in chromosomal translocations in distinct pathogenetic forms of Burkitt's lymphoma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1988) 85, 2748-2752;
	Neri, A., Chang, C. C., Lombardi, L., Salina, M., Corradini, P., Maiolo, A. T., Chaganti, R. S., and Dalla-Favera, R., B-cell lymphoma-associated chromosomal translocation involves candidate oncogene <i>lyt-10</i> , homologous to NF-kappa B p50, <i>Cell</i> , (1991) 67, 1075-1087;
	Newman, P. J., Berndt, M. C., Gorski, J., White, G. C. D., Lyman, S., Paddock, C., and Muller, W. A., PECAM-1 (CD31) cloning & relation to adhesion molecules of the immunoglobulin gene superfamily, <i>Science</i> , (1990) 247, 1219-1222;
	Offit, K., Louie, D. C., Parsa, N. Z., Roy., Leung, D., Lo Coco, F., Zelenetz, A., Dalla-Favera, R., Chaganti, R. S., BCL6 gene rearrangement and other cytogenetic abnormalities in diffuse large cell lymphoma, <i>Leuk. Lymphoma</i> , (1995) 20, 85-89;

EXAMINER

DATE CONSIDERED

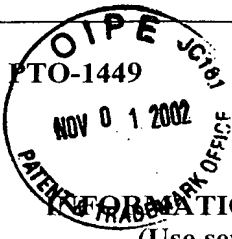
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642PATENT INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	<p>Pelicci, P. G., Knowles, D. M. D., Magrath, I., and Dalla-Favera, R., Chromosomal breakpoints and structural alterations of the c-myc locus differ in endemic and sporadic forms of Burkitt's lymphoma, <i>Proc. Natl. Acad. Sci. U.S.A.</i>, (1986) 83, 2984-2988;</p>
	<p>Polito, P., Cilia, A. M., Gloghini, A., Cozzi, M., Perin, T., De Paoli, P., Gaidano, G., and Carbone, A., High frequency of EBV association with non-random abnormalities of the chromosome region 1q21-25 in AIDS-related Burkitt's lymphoma-derived cell lines, <i>Int. J. Cancer</i>, (1995) 61, 370-374;</p>
	<p>Pruneri, G., Fabris, S., Baldini, L., Carboni, N., Zagano, S., Colombi, M. A., Ciceri, G., Lombardi, L., Rocchi, M., Buffa, R., Maiolo, A. T., Neri, A., Immunohistochemical analysis of cyclin D1 shows deregulated expression in multiple myeloma with the t(11;14), <i>Am. J. Pathol.</i>, (2000) 156, 1505-1513;</p>

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

NOV 0 1 2002

Page 15 of 21

Form PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.
58044-A/
JPW/AJM/AG

Serial No.
09/724,254

Applicant(s)
Riccardo Dalla-Favera

Filing Date
November 28,
2000

Group Art Unit
1642

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Qiu, W. Q., De Bruin, D., Brownstein, B. H., Pearse, R., Ravetch, J. V., Organization of the human and mouse low-affinity Fc gamma R genes: duplication and recombination, <i>Science</i> , (1990) 248, 732-735;
	Rao, P. H., Houldsworth, J., Dyomina, K., Parsa, N. Z., Cigudosa, J. C., Louie, D. C., Popplewell, L., Offit, K., Jhanwar, S. C., and Chaganti, R. S., Chromosomal and gene amplification in diffuse large B-cell lymphoma, <i>Blood</i> (1998) 92, 234-240;
	Rao, P. H., Murty, V. V., Gaidano, G., Hauptschein, R., Dalla-Favera, R., and Chaganti, R. S., Subregional localization of 20 single-copy loci to chromosome 6 by fluorescence in situ hybridization, <i>Genomics</i> , (1993) 16, 426-430;
	Ravetch, J. V., and Lanier, L. L., Immune inhibitory receptors, <i>Science</i> , (2000) 290, 84-89;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO 1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642**INFORMATION DISCLOSURE CITATION**
(Use several sheets if necessary)**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Reth, M., Antigen receptor tail clue, <i>Nature</i> , (1989) 338, 383-384;
	Reth, M., Antigen receptors on B lymphocytes, <i>Annu. Rev. Immunol.</i> , (1992) 10, 97-121;
	Richelda, R., Ronchetti, D., Baldini, L., Cro, L., Viggiano, L., Marzella, R., Rocchi, M., Otsuki, T., Lombardi, L., Maiolo, A. T., Neri, A., A novel chromosomal translocation t(4;14)(p16.3;q32) in multiple myeloma involves the fibroblast growth-factor receptor 3 gene, <i>Blood</i> , (1997) 90, 4062-4070;
	Riley, J., Butler, R., Ogilvie, D., Finniear, R., Jenner, D., Powell, S., Anand, R., Smith, J. C., and Markham, A. F., A novel, rapid method for the isolation of terminal sequences from yeast artificial chromosome (YAC) clones, <i>Nucleic Acids Res.</i> , (1990) 18, 2887-2890;

EXAMINER

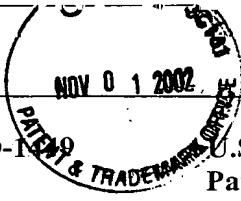
DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900



Form PTO-159

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No. 58044-A/ JPW/AJM/AG	Serial No. 09/724,254
Applicant(s) Riccardo Dalla-Favera	
Filing Date November 28, 2000	Group Art Unit 1642

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

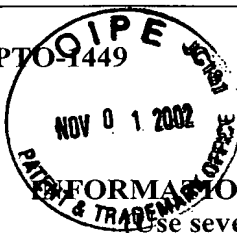
	Ronchetti, D., Finelli, P., Richelda, R., Baldini, L., Rocchi, M., Viggiano, L., Cuneo, A., Bogni, S., Fabris, S., Lombardi, L., Maiolo, A. T., and Neri, A., Molecular analysis of 11q13 breakpoints in multiple myeloma, <i>Blood</i> , (1999) 93, 1330-1337;
	Rosenberg, C. L., Wong, E., Petty, E. M., Bale, A. E., Tsujimoto, Y., Harris, N. L., and Arnold, A., PRAD1, a candidate BCL1 oncogene: mapping and expression in centrocytic lymphoma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1991) 88, 9638-9642;
	Sawyer, J. R., Tricot, G., Mattox, S., Jagannath, S., and Barlogie, B., Jumping translocations of chromosome 1q in multiple myeloma: evidence for a mechanism involving decondensation of pericentromeric heterochromatin, <i>Blood</i> , (1998) 91, 1732-1741;
	Sawyer, J. R., Waldron, J. A., Jagannath, S., Barlogie, B., Cytogenetic findings in 200 patients with multiple myeloma, <i>Cancer Genet. Cytogenet.</i> , (1995) 82, 41-49;

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED
NOV 05 2002
TECH CENTER 1600/2900

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642FORMAL DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Shou, Y., Martelli, M. L., Gabrea, A., Qi, Y., Brents, L. A., Roschke, A., Dewald, G., Kirsch, I. R., Bergsagel, P. L., and Kuehl, W. M., Diverse karyotypic abnormalities of the c-myc locus associated with c-myc dysregulation and tumor progression in multiple myeloma, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (2000) 97, 228-233;
	Stockinger, H., Gadd, S. J., Eher, R., Majdic, O., Schreiber, W., Kasinrerker, W., Strass, B., Schnabl, E., and Knapp, W., Molecular characterization and functional analysis of the leukocyte surface protein CD31, <i>J. Immunol.</i> , (1990) 145, 3889-3897;
	Swerdlow, S. H., Yang, W. I., Zukerberg, L. R., Harris, N. L., Arnold, A., Williams, M. E., Expression of cyclin D1 protein in centrocytic/mantle cell lymphomas with and without rearrangement of the BCL1/cyclin D1 gene, <i>Hum. Pathol.</i> , (1995) 26, 999-1004;

EXAMINER

DATE CONSIDERED

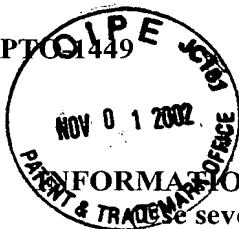
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO 1449


**U.S. Department of Commerce
Patent and Trademark Office**
Atty. Docket No.
58044-A/
JPW/AJM/AG

Serial No.
09/724,254

Applicant(s)
Riccardo Dalla-Favera

Filing Date
November 28,
2000

Group Art Unit
1642

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Tagawa, S., Doi, S., Taniwaki, M., Abe, T., Kanayama, Y., Nojima, J., Matsubara, K., and Kitani, T., Amylase-producing plasmacytoma cell lines, AD3 and FR4, with der(14)t(8;14) and dic(8)t(1;8) established from ascites, <i>Leukemia</i> , (1990) 4, 600-605;
	Taub, R., Kirsch, I., Morton, C., Lenoir, G., Swan, D., Tronick, S., Aaronson, S., Leder, P., Translocation of the c-myc gene into the immunoglobulin heavy chain locus in human Burkitt's lymphoma and murine plasmacytoma cells, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , (1982) 79, 7837-7841;
	Thompson, J. D., Higgins, D. G., Gibson, T. J., CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice, <i>Nucleic Acids Res.</i> , (1994) 22, 4673-4680;
	Tusnady, G. E., Simon, I. Principles governing amino acid composition of integral membrane proteins: application to topology prediction, <i>J. Mol. Bio.</i> , (1998) 283, 489-506;

EXAMINER

DATE CONSIDERED

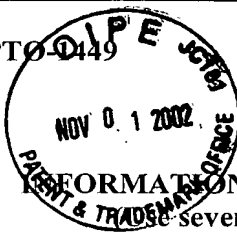
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO-0449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE CITATION
(Several sheets if necessary)Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Unkeless, J. C., and Jin, J., Inhibitory receptors, ITIM sequences and phosphatases, <i>Curr. Opin. Immunol.</i> , (1997) 9, 338-343;
	Von Heijne, G., A new method for predicting signal sequence cleavage sites, <i>Nucleic Acids Res.</i> , (1986) 14, 4683-4690;
	Whang-Peng, J., Knutsen, T., Jaffe, E. S., Steinberg, S. M., Raffeld, M., Zhao, W. P., Duffey, P., Condron, K., Yano, T., Longo, D. L., Sequential analysis of 43 patients with non-Hodgkin's lymphoma: clinical correlations with cytogenetic, histologic, immunophenotyping and molecular studies, <i>Blood</i> , (1995) 85, 203-216;
	Willis, T. G., Zalcborg, I. R., Coignet, L. J., Wlodarska, I., Stul, M., Jadayel, D. M., Bastard, C., Treleaven, J. G., Catovsky, D., Silva, M. L., and Dyer, M. J., Molecular cloning of translocation tt(1;14)(q21;q32) defines a novel gene (BCL9) at chromosome 1q21, <i>Blood</i> , (1998) 91, 1873-1881;

EXAMINER

DATE CONSIDERED

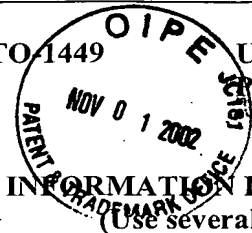
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeINFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Atty. Docket No.
58044-A/
JPW/AJM/AGSerial No.
09/724,254Applicant(s)
Riccardo Dalla-FaveraFiling Date
November 28,
2000Group Art Unit
1642

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Ye, B. H., Lista, F., Lo Coco, F., Knowles, D. M., Offit, K., Chaganti, R. S., and Dalla-Favera, R., Alterations of a zinc finger-encoding gene, BCL-6, in diffuse large-cell lymphoma, <i>Science</i> , (1993) 262, 747-75;
	Yu, L. M., Peng, C., Starnes, S. M., Liou, R. S., and Chang, T. W., Two isoforms of human membrane-bound alpha Ig resulting from alternative mRNA splicing in the membrane segment, <i>J. Immunol.</i> , (1990) 145, 3932-3936; and
	Zhang, X. G., Gaillard, J. P., Robillard, N., Lu, Z. Y., Gu, Z. J., Jourdan, M., Boiron, J. M., Bataille, R., and Klein, B., Reproducible obtaining of human myeloma cell lines as a model for tumor stem cell study in human multiple myeloma, <i>Blood</i> , (1994) 83, 3654-3663.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

NOV 05 2002

TECH CENTER 1600/2900